Human Phospho-STAT2 (Y689) Antibody

Recombinant Monoclonal Rabbit IgG Clone # 1021D
Catalog Number: MAB2890

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human phospho-STAT2 (Y689) in direct ELISAs and Western blots.
Source	Recombinant Monoclonal Rabbit IgG Clone # 1021D
Purification	Protein A or G purified from cell culture supernatant
Immunogen	Phosphopeptide containing the human STAT2 Y689 site
Formulation	Supplied as a solution in PBS containing BSA, Glycerol and Sodium Azide. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

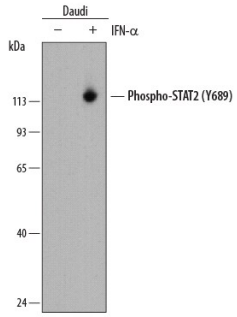
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Western Blot	1:1000 dilution	See Below
Flow Cytometry	1:50 dilution	See Below
Simple Western	1:100 dilution	See Below

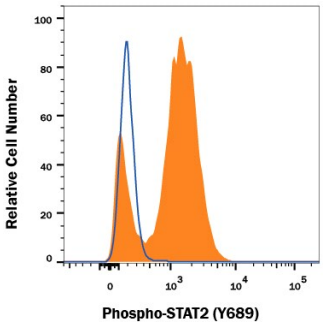
DATA

Western Blot



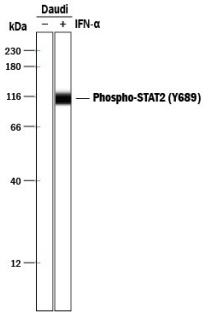
Detection of Human Phospho-STAT2 (Y689) by Western Blot. Western blot shows lysates of Daudi human Burkitt's lymphoma cell line untreated (-) or treated (+) with 500 U/mL Recombinant Human IFN-αA (Catalog # 11100-1) for 20 minutes. PVDF membrane was probed with a 1:1000 dilution of Rabbit Anti-Human Phospho-STAT2 (Y689) Monoclonal Antibody (Catalog # MAB2890) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008). A specific band was detected for Phospho-STAT2 (Y689) at approximately 113 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Flow Cytometry



Detection of STAT2 in Daudi Human Cell Line by Flow Cytometry. Daudi human Burkitt's lymphoma cell line untreated (open histogram) or treated with 500 U/mL Recombinant Human IFN-αA (Catalog # 11100-1, filled histogram) for 20 minutes was stained with Rabbit Anti-Human Phospho-STAT2 (Y689) Monoclonal Antibody (Catalog # MAB2890), followed by Fluorescein-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # F0112). To facilitate intracellular staining, cells were fixed with Flow Cytometry Fixation Buffer (Catalog # FC004) and permeabilized with 90% methanol.

Simple Western



Detection of Human Phospho-STAT2 (Y689) by Simple Western™. Simple Western lane view shows lysates of Daudi human Burkitt's lymphoma cell line untreated (-) or treated (+) with 500 U/mL Recombinant Human IFN-αA (Catalog # 11100-1) for 20 minutes, loaded at 0.2 mg/mL. A specific band was detected for Phospho-STAT2 (Y689) at approximately 111 kDa (as indicated) using 1:100 dilution of Rabbit Anti-Human Phospho-STAT2 (Y689) Monoclonal Antibody (Catalog # MAB2890). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.

PREPARATION AND STORAGE

Shipping
The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

Stability & Storage
- 12 months from date of receipt, -20 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after opening.
- 6 months, -20 °C under sterile conditions after opening.

BACKGROUND

STAT2 (signal transducer and activator of transcription 2) is a 113 kDa member of the STAT family of cytoplasmic transcription factors. STAT members generally mediate cytokine, growth factor and hormone receptor signal transduction. STAT2 is associated with type I (α- and β-) interferon signaling. All STATs contain an N-terminal oligomerization domain, a DNA-binding domain, and an SH2-association region. STAT2 is phosphorylated at Y689 by receptor-associated Janus kinases (JAKs) leading to STAT2 dimerization and subsequent translocation to the nucleus to activate gene transcription.

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Human Phospho-STAT2 (Y689) Antibody

Recombinant Monoclonal Rabbit IgG Clone # 1021D
Catalog Number: MAB2890

PRODUCT SPECIFIC NOTICES

* Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to SDS for additional information and handling instructions.

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